

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P263349

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3126.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

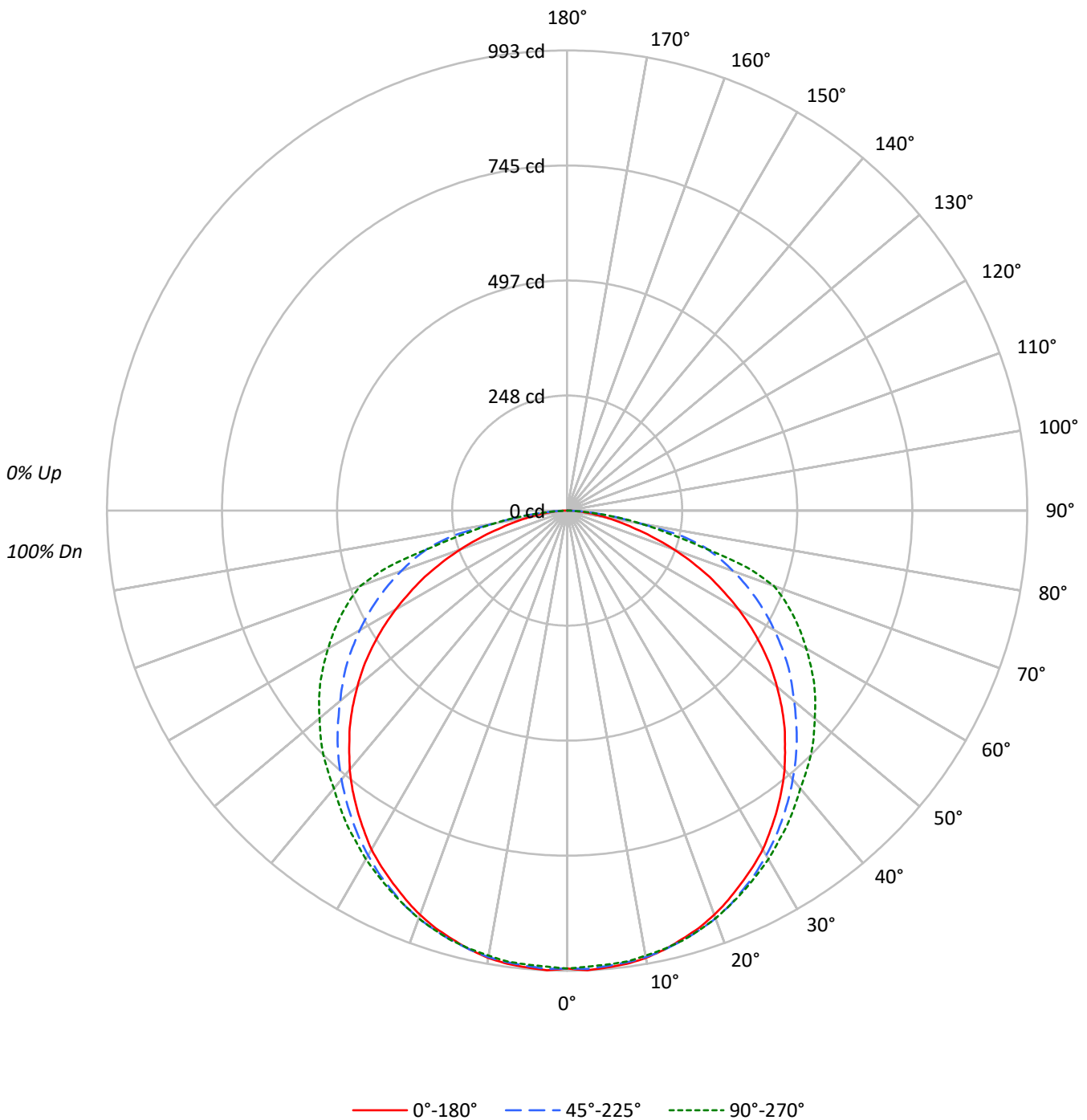
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263349

CATALOG NUMBER: 24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263349

CATALOG NUMBER: 24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1330	1330	1330
5°	1337	1333	1328
10°	1339	1337	1332
15°	1334	1338	1338
20°	1329	1341	1341
25°	1318	1338	1342
30°	1312	1335	1350
35°	1297	1331	1361
40°	1282	1330	1375
45°	1263	1333	1416
50°	1237	1338	1460
55°	1205	1364	1526
60°	1151	1390	1603
65°	1080	1434	1717
70°	965	1499	1867
75°	797	1603	1544
80°	651	1239	1251
85°	523	823	773



TEST NUMBER: P263349

CATALOG NUMBER: 24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.0
10°-20°	270.8	8.7
20°-30°	413.9	13.2
30°-40°	506.2	16.2
40°-50°	541.6	17.3
50°-60°	518.7	16.6
60°-70°	438.8	14.0
70°-80°	278.1	8.9
80°-90°	64.0	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	778.6	24.9
0°-40°	1284.8	41.1
0°-60°	2345.1	75.0
0°-90°	3126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	990	985	987	985	983	94
15°	958	956	961	961	961	270
25°	888	888	901	904	904	410
35°	790	794	811	822	828	494
45°	664	675	701	730	744	511
55°	514	530	581	630	651	458
65°	339	371	450	512	539	334
75°	153	216	308	307	297	167
85°	34	52	53	48	50	40
90°	0	0	0	0	0	



TEST NUMBER: P263349

CATALOG NUMBER: 24CZ-LD5-50SE-SQP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.2	988.2	988.2	988.2	988.2
2.5°	993.0	988.2	989.8	988.2	985.0
5°	989.8	985.0	986.6	985.0	983.3
7.5°	986.6	981.7	983.3	981.7	981.7
10°	980.1	975.3	978.5	976.9	975.3
12.5°	970.4	967.2	970.4	968.8	968.8
15°	957.5	955.9	960.7	960.7	960.7
17.5°	944.6	943.0	949.4	949.4	949.4
20°	928.4	926.8	936.5	936.5	936.5
22.5°	909.1	907.5	920.4	920.4	920.4
25°	888.1	888.1	901.0	904.2	904.2
27.5°	867.1	867.1	881.6	886.5	886.5
30°	844.5	844.5	859.0	865.5	868.7
32.5°	817.0	820.3	836.4	844.5	847.7
35°	789.6	794.4	810.6	821.9	828.3
37.5°	760.5	765.4	784.7	797.7	805.7
40°	729.8	736.3	757.3	773.4	783.1
42.5°	695.9	705.6	729.8	750.8	763.7
45°	663.6	674.9	700.8	729.8	744.4
47.5°	628.1	641.0	670.1	707.2	721.8
50°	591.0	603.9	639.4	681.4	697.5
52.5°	553.8	568.4	610.4	655.6	674.9
55°	513.5	529.6	581.3	629.7	650.7
57.5°	471.5	490.9	549.0	600.7	623.3
60°	427.9	452.1	516.7	571.6	595.8
62.5°	382.7	411.7	484.4	542.5	568.4
65°	339.1	371.4	450.5	511.9	539.3
67.5°	292.3	332.6	416.6	482.8	508.6
70°	245.4	292.3	381.1	448.9	474.7
72.5°	198.6	255.1	345.5	406.9	406.9
75°	153.4	216.4	308.4	306.8	297.1
77.5°	116.3	180.8	253.5	216.4	218.0
80°	84.0	145.3	159.9	159.9	161.5
82.5°	56.5	111.4	103.3	101.7	105.0
85°	33.9	51.7	53.3	48.4	50.1
87.5°	16.1	17.8	14.5	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)